## WHAT IS CLAIMED IS:

1	· 1		An apparatus for aerial spray marking of ground surfaces,		
2	said apparatus comprising:				
3	a source of a marking substance; and				
4	means for producing a highly forceful shot of said marking				
5	substance capable of penetrating dense foliage.				
1	2	. <b>.</b>	The apparatus of claim 1 wherein said means for		
2	producing a highly forceful shot is a solid stream spray nozzle.				
1	3	<b>5.</b>	The apparatus of claim 2 further comprising means for		
2	tilting said solid stream spray nozzle.				
1	4		The apparatus of claim 1 further comprising means for		
2	adjusting shot forcefulness.				
1	5	<b>5.</b>	The apparatus of claim 1 further comprising means for		
2	supporting said apparatus from an aircraft.				
1	6	<b>i</b> .	A system for aerial spraying of ground surfaces, said		
2	system compris	sing:			
3	а	a storage tank for holding a substance;			
4	means for pressurizing said storage tank;				
5	a spray nozzle assembly; and				
6	а	feed	line connecting said storage tank and said nozzle		
7	assembly so as to deliver pressurized substance to said spray nozzle				
8	assembly.				
1	7		The system of claim 6 wherein said means for		
2	pressurizing sa	pressurizing said storage tank includes a cylinder of compressed gas.			
1	8	<b>3.</b>	The system of claim 7 wherein said cylinder contains an		
2	inert gas.				
1	9	).	The system of claim 7 further comprising a pressure		
2	regulator, a hig	regulator, a high pressure line connecting said cylinder to said pressure			
3	regulator, and a first regulated gas line connecting said pressure regulator to				
4	said storage tank.				

1	10. The system of claim 9 wherein said spray nozzle				
2	assembly includes a first valve connected to said feed line, a spray nozzle				
3	connected to said first valve, and a second valve arranged to open and close				
4	said first valve.				
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1	11. The system of claim 10 wherein said spray nozzle is	<b>,</b> а			
2	solid stream spray nozzle.				
1	12. The system of claim 10 further comprising means for	or			
2	tilting said spray nozzle.				
1	13. The system of claim 10 further comprising:				
2	a second regulated gas line connecting said pressure regu	ılator			
3	to said second valve; and				
4	first and second pneumatic control ports fluidly connecting	said			
5	second valve to said first valve, wherein said second valve is a solenoid valve				
6	having a first state in which said first pneumatic control port is pressurized by				
7	said second regulated gas line and a second state in which said second				
8	pneumatic control port is pressurized by said second regulated gas line, and				
9	wherein said first valve is closed when said first pneumatic control port is				
10	pressurized and said first valve is opened when said second pneumatic				
11	control port is pressurized.				
1	14. The system of claim 13 further comprising a contro	ler for			
2	controlling said second valve.				
1	15. The system of claim 14 further comprising means for	or			
2	selecting how said controller controls said second valve.				
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1	<ol><li>The system of claim 14 further comprising a shut of</li></ol>	ff			
2	valve disposed in said feed line.				
1	17. The system of claim 16 further comprising means f	or			
2	sensing pressure of gas output from said pressure regulator, said contr	oller			
3	controlling said shut off valve in response to said means for sensing pressure.				

1	18.	The system of claim 7 further comprising a frame, said				
2	storage tank, said cylinder and said spray nozzle assembly all being mounted					
3	on said frame.					
1	19.	The system of claim 18 wherein said cylinder is				
2	removably mounted to said frame.					
		The system of claim 18 further comprising means for				
1	20.					
2	supporting said frame from an aircraft.					
1	21.	The system of claim 20 wherein said means for				
2	supporting includes at least one attachment arm extending from said frame					
3	and a cable connected at one end to said attachment arm and at another end					
4	to an aircraft.					
4	22.	The system of claim 6 wherein said spray nozzle				
1						
2	assembly includes a main valve connected to said feed line and a spray nozzle connected to said main valve.					
3	MOZZIE COMMECIEC					
1	23.	The system of claim 22 wherein said spray nozzle is a				
2	solid stream spray	nozzle.				
1	24.	The system of claim 22 further comprising means for				
2	tilting said spray nozzle.					
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1	25.	The system of claim 22 further comprising a shut off				
2	valve disposed in said feed line between said storage tank and said main					
3	valve.					
1	26.	A method for aerial spray marking of ground surfaces,				
2	said method comprising:					
3	providing a source of a marking substance;					
4	flyin	g over a ground surface; and				
5	spra	lying a highly forceful shot of said marking substance onto				
6	said ground surface, wherein said shot is forceful enough to penetrate dense					
7	foliage.					
1	27.	A method for aerial spraying of ground surfaces, said				
2	method comprisir					

3 4	providing a storage tank for holding a substance to be sprayed; pressurizing said storage tank;				
5	supplying pressurized substance from said storage tank to a				
6	spray nozzle assembly;				
7	flying over a target site; and				
8	selectively activating said spray nozzle assembly to spray				
9	pressurized substance onto ground surfaces.				
1	22. The method of claim 27 wherein said storage tank is				
2	pressurized by introducing a pressurized gas into said storage tank.				
1	29. The method of claim 28 wherein said gas is an inert gas.				
1	30. The method of claim 28 further comprising sensing the				
2	pressure of said pressurized gas and shutting off supply of pressurized				
3	substance from said storage tank to said spray nozzle assembly if the sensed				
4	pressure falls below a predetermined level.				
1	31. The method of claim 28 further comprising selecting the				
2	pressure of said pressurized gas introduced into said storage tank.				
1	32. The method of claim 27 wherein said spray nozzle				
2	assembly includes a solid stream spray nozzle.				
1	33. The method of claim 32 further comprising tilting said				
2	spray nozzle to a desired angle.				
1	34. The method of claim 27 wherein a pressurized gas is				
2	used to selectively activate said spray nozzle assembly.				
1	35. The method of claim 27 wherein said substance to be				
2	sprayed is a marking substance.				
1	36. The method of claim 35 wherein said substance includes				
2	paint.				
1	37. The method of claim 35 wherein said substance includes				
2	a luminescent material.				